

What is claimed is:

1. An apparatus for optically correlating signals, comprising:  
an input light source, the input light source adapted to generate at least one  
5 individual light beam from at least one direction;  
a first plurality of optical elements configured to split the at least one individual  
light beam into a plurality of component light beams, the plurality of optical elements  
further configured to direct the plurality of component light beams along a plurality of  
paths;  
10 a plurality of white cells, each white cell configured to receive at least one  
component light beam, each white cell further configured to propagate light at a specific  
duration;  
a micromirror array configured to receive the plurality of component light beams  
from the plurality of white cells, the micromirror array further configured to reflect the  
15 plurality of component light beams among the plurality of white cells;  
a second plurality of optical elements configured to receive each of the  
component light beams and combine the plurality of component light beams to form an  
output light beam.
- 20 2. The apparatus of claim 1, wherein each component light beam of an individual  
light beam has equal power.
3. The apparatus of claim 1, wherein the first plurality of optical elements is a  
plurality of lenses.  
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4. The apparatus of claim 1, wherein the plurality of white cells includes a null cell.
5. The apparatus of claim 1, wherein the micromirror array is a micro-electro-  
mechanical device.

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6. The apparatus of claim 1, wherein the micromirror array is an array of mirrors,  
each mirror disposed at a fixed angle.
7. The apparatus of claim 1, wherein the second plurality of optical elements
- 5 includes a second plurality of white cells.